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ciation, the American Forestry Association, American Newspaper Publishers' Association, National Wholesale Lumber Dealers' Association, Southern Pine Association, Western Forestry and Conservation Association, American Paper and Pulp Association, United States Forest Service, Society for the Protection of New Hampshire Forests, national forest fire protection committee.

RESOLUTIONS OF THE NATIONAL RESEARCH COUNCIL ON THE DEATH OF HENRY A. BUMSTEAD

As has been recorded in SCIENCE Dr. Henry A. Bumstead, professor of physics and director of the Sloane Physical Laboratory at Yale University, and for the past half year on leave from the university as chairman of the National Research Council of Washington, D. C., died suddenly on the train on the night of December 31, while returning from Chicago, where he had been in attendance at the meetings of the American Association for the Advancement of Science and affiliated societies. The following resolution was unanimously adopted at a special meeting of the Interim Committee of the National Research Council, held on January 3, 1921:

Resolved, That the National Research Council learns of the death of Dr. Henry A. Bumstead, chairman of the council, with great sorrow and profound sense of loss. Dr. Bumstead in his association with the council had revealed to its officers and members not only a high capacity for administration, and a most loyal fidelity to the aims and work of the council, but also a sweetness of disposition and personal attractiveness which had won for him the devoted and affectionate regard of all of his colleagues in the council. In his death the council and the scientific world lose a man of most eminent attainments, highest character, and lovable personality.

The National Research Council extends to the bereaved wife and family its deepest sympathy and condolence and wishes to express to them its full appreciation of the great value of the services which Dr. Bumstead rendered it in the period of his association with it and the great loss which it suffers by his untimely death. But may we all remember that "that life is long that answers life's great ends."

SCIENTIFIC NOTES AND NEWS

DR. EDGAR FAHS SMITH, former provost of the University of Pennsylvania, has been elected president of the American Chemical Society. Dr. Smith was president of the society in 1898. Announcement is also made that the ballots of the 15,500 members of the society resulted in the election of the following other officers: Directors, George D. Rosen Garten, of Philadelphia, and Dr. Henry P. Talbot, of the Massachusetts Institute of Technology. Councilors, Dr. Carl L. Alsberg, of the Bureau of Chemistry; Dr. Allen Rogers, of Pratt Institute; Dr. Lauder W. Jones, of Princeton University, and Harrison E. Howe, of the National Research Council.

PROFESSOR C. E. ALLEN, of the department of botany of the University of Wisconsin, was elected president of the Botanical Society of America at the recent meeting in Chicago. He was also named editor-in-chief of *The American Journal of Botany*.

THE Perkin medal of the American Section of the Society of Chemical Industry has been awarded to Dr. Willis R. Whitney, research director of the General Electric Company.

A DISTINGUISHED service medal was awarded at the annual meeting of Gamma Sigma Delta, honorary agricultural society, held in Chicago, to Professor Stephen M. Babcock, inventor of the Babcock milk test and professor emeritus of agricultural chemistry at the University of Wisconsin. Professor Babcock was also made an honorary member of the organization.

MAJOR LAWRENCE MARTIN, the Gilman Memorial lecturer in Geography at Johns Hopkins University for 1920-21, has been demobilized after three and one half years' service in the United States Army, and has entered the State Department in Washington. By order of the secretary of war, after selection by General Pershing and a board of officers, Major Martin has been placed on the General Staff eligible list.

PROFESSOR EDWARD S. MORSE, of Peabody Academy and Boston Museum of Fine Arts, has been elected an honorary member of the East Asiatic Society.

MR. PHILIP AINSWORTH MEANS, appointed to the directorship of the Museo Nacional de Arqueología in Lima, Peru, assumed office in November.

DR. ROBERT CUSHMAN MURPHY, for ten years a member of the staff of The Brooklyn Museum, and curator of the department of natural science since April, 1917, has resigned in order to accept the position of associate curator of ornithology in The American Museum of Natural History. In his new work the greater part of his time will be devoted to a study of marine birds. The work will include both the preparation of reports upon the museum's present collections and the carrying out of field investigations in the south Pacific.

DR. E. J. BUTLER, lately imperial mycologist of the Agricultural Research Institute, Pusa (India), has been appointed director of the Imperial Bureau of Mycology, and can be addressed at 17, Kew Green, Kew, Surrey, England.

MR. CHARLES A. FORT, research chemist of the General Electric Co., of Pittsfield, Mass., has become chief chemist for the Forest Products Chemical Co., of Memphis, Tenn.

DR. HENRY H. RUSBY, dean of the school of pharmacy of Columbia University, will lead an exploration party which will leave in the early spring for the unexplored upper basin of the Amazon River. Among those accompanying him will be Professor Edward Kremers, of the University of Wisconsin, and Professor A. H. Gill, of the Massachusetts Institute of Technology, who will investigate seed and volatile oils.

DR. LOUISE PEARCE, of the scientific staff of the Rockefeller Institute, has returned from several months' stay in the Belgian Congo, where she went in order to study the treatment of African sleeping sickness with Tryparsamide (sodium salt of N-Phenylglycinamide-p-arsonic acid) prepared at the Rockefeller Institute. While returning through Brussels she was decorated with the order of the Crown, and her companion, Miss Elizabeth D. Bowen, with the order of Leopold II, by the king of the Belgians.

DR. T. C. LYSTER of the Rockefeller Foundation has gone to Mexico to make some observation on the present epidemic of yellow fever and offer the assistance of the foundation in the campaign for the eradication of the disease. The president of Mexico has accepted this offer and Dr. Lyster will return later in January to begin the campaign, the plans for which were submitted by him and are now being considered by the department of public health.

DR. MARTIN H. FISCHER, professor of physiology at the University of Cincinnati, has been granted a three months leave of absence, in order that he may accept an invitation to lecture on his researches in colloid chemistry at the Universities of Amsterdam and Utrecht. He is now in Holland.

DR. L. EMMETT HOLT, of Columbia University, has been appointed Lane medical lecturer for the year 1921. The lectures will be delivered at the medical school of Stanford University, San Francisco, during the week beginning November 28, on the general subject of growth and nutrition.

DR. ROBERT B. SOSMAN, of the Bureau of Standards, delivered on January 15 the address of the retiring president of the Philosophical Society of Washington on "The Distribution of Scientific Information."

DR. VERNON KELLOGG, permanent secretary of the National Research Council, is giving three lectures this month at Brown University on the Charles K. Colver Foundation. The subject of the lectures is "Human Life as the Biologist sees it." The dates are January 10, 17, and 24. The lectures will be published in book form by Houghton, Mifflin Company.

PROFESSOR HERMANN J. JORDAN, 19 Frans Halsstraat, Utrecht, Holland, who is writing a book on comparative physiology, desires especially the papers of American physiologists and experimental zoologists, and would be grateful to authors who may favor him with their publications.

THE Technical High School at Brünn, Czechoslovakia, desires to raise a fund in

honor of Ernest Mach, who was born in that neighborhood. Professor Mach's researches in physics and psychology have given him worldwide reputation. The purpose of the fund is to award a prize for an essay, dealing with the subjects of his interest. Subscribers may send contributions directly to Dr. Emil Waelisch at the address given.

THE stated meeting of the New York Academy of Medicine, on January 6, was held in association with the Society for Experimental Biology and Medicine and the Harvey Society as a tribute of appreciation to the life and services of Dr. Samuel James Meltzer. Memorial addresses were made by Drs. George B. Wallace, Phoebus A. Levene, William H. Howell, Graham Lusk, and William H. Welch.

DR. EDWARD J. NOLAN, librarian of The Academy of Natural Sciences of Philadelphia, died on January 7, 1921. Dr. Nolan was connected with the academy from 1862 until the time of his death, having served during the greater part of that time as recording secretary, librarian and editor of the publications of the academy. At the meeting of November 16, 1920, the academy designated him as recording secretary emeritus, in recognition of his long and faithful service to the institution.

ITALO GIGLIOLI, professor of agriculture at Portici and Pisa, known for his work in agricultural chemistry, has died at the age of sixty-eight years.

WE learn from *Nature* that Charles A. Sadler, who graduated from the University of Liverpool in 1905 and was the author of contributions on X-ray and other radiations, died on December 5.

THE annual general meeting of the American Philosophical Society will be held on April 21, 22 and 23, 1921, beginning at 2 p.m., on Thursday, April 21.

THE HONORABLE CHASE S. OSBORN, of Sault de Sainte Marie, Michigan, ex-governor of the state and former regent of the state university, has made a gift of \$5,000 to the department of geology of the university, to provide

for an expedition by Professor William H. Hobbs to study the evolution of mountains and continents. Dr. Hobbs has been granted leave of absence for the academic year 1921-1922 and will sail from San Francisco in July on a trip which will take him around the world. Governor Osborn is cooperating to raise an endowment fund which will provide for future expeditions by the geological department.

PROFESSOR OTTO A. REINKING, professor of plant pathology of the college of agriculture, University of the Philippines, Los Baños, Laguna, Philippine Islands, returned to the Philippine Islands after an extended trip in Southern China, French Indo China, Siam, and the Federated Malay States. The trip was made possible through the cooperation of the division of crop physiology and breeding investigations of the Bureau of Plant Industry, Washington, D. C., with the University of the Philippines. The primary object of the trip was the study of citrus diseases in the various countries and the collection and study of the Siam seedless pummelo. Bud wood and plants of the famous Siam seedless pummelo were successfully introduced into the Philippines and also into the United States. Last year a similar trip was made by Professor Reinking for the United States and the Philippine governments. On this trip a study was made of the citrus diseases in Southern China and Formosa. Extensive collections were made.

WE learn from the *British Medical Journal* that a complete scheme for the establishment of a school of tropical medicine and research in Parel, Bombay, has been submitted for the sanction of the British Secretary of State. and it is hoped that it will be opened at an early date and afford opportunities for post-graduate instruction to students from all parts of the world. A medical college will be established in association with King Edward's Memorial Hospital in Parel, the foundation stone of which will be laid this month.

A PRIZE has been endowed in the name of Dr. Paul Legendre at the Société médicale des

hôpitaux de Paris to confer 3,000 francs every third year on the best work on the ethical and social aspects of the medical profession, published or presented during the preceding years, or for the best competing articles presented on a special topic. The first prize will be awarded in December, 1923, and a topic has been selected for this competition, namely, "A statistical and critical study of the French civilian and military medical and surgical rôle during the war, 1914-1918, and the resulting consequences for physicians and conclusions for the future."

PROFESSOR AND MRS. JEREMIAH W. JENKS have deeded property on the east shore of Cayuga Lake to Cornell University for the use of the department of biology. Boats, kept in the boathouse which comes with the property, will be available for collecting the specimens in which the end of the lake and the marshes near it abound.

THE zoology department of the University of Texas is the recipient of a gift of \$500 from Mr. H. A. Wroe, member of the board of regents for the study of the physiology of reproduction in the opossum under Professor Carl Hartman.

UNIVERSITY AND EDUCATIONAL NEWS

A COLLEGE of engineering has been established at Cornell University to consist of the Sibley School of Mechanical Engineering, the School of Civil Engineering, and the School of Electrical Engineering. Professor Dexter S. Kimball has been appointed dean of the newly created engineering college and as directors of the work in the three schools, Herman Diedrichs, mechanical engineering; Fred Asa Barnes, civil engineering, and Alexander M. Gray, electrical engineering have been appointed. Dean A. W. Smith, who has for many years had charge of Sibley College, and who is now acting president of the university, and Dean E. E. Haskell of the present college of civil engineering, have sabbatical leave next term, and retire from active service in June of this year.

THE resignation of Professor Russell H. Chittenden, of Yale University, from the chairmanship of the department of physiology, physiological chemistry and bacteriology has been accepted, and Professor Lafayette B. Mendel has been appointed his successor.

DR. H. B. LATIMER, who has been in charge of the courses in anatomy in the department of zoology of the University of Nebraska, has been granted a leave of absence for the current year to carry on research in anatomy at the University of Minnesota. His work is being taken by Mr. Daniel S. Brazda. Dr. E. B. Powers has also been added to the staff of the department taking the field of animal ecology.

DR. C. B. CLEVENGER has resigned an instructorship in the department of chemistry, University of Wisconsin, to accept a professorship of agricultural chemistry and head of the department of chemistry of the Manitoba Agricultural College.

DR. HENRY S. HOUGHTON, a graduate of Ohio State University and the Johns Hopkins Medical School, who has passed the last fifteen years in China, has been appointed director of the Peking Union Medical College.

DISCUSSION AND CORRESPONDENCE NATURAL AREAS AND BIOLOGICAL SCIENCE

WITH the increasing activities in biological science there has been a correspondingly increased demand for the preservation of areas on which the fauna and flora may be found undisturbed by outside agencies. Workers in the various lines of ecology and genetics are particularly interested in these natural areas; the Ecological Society, several State Academies of Science, and other scientific organizations, are urging the reservation of areas suitable for study. Laboratory experiments under controlled conditions, however essential, can not replace field observation. In fact, the greater the amount of laboratory experimentation, the greater the need of natural areas—for laboratory work and field studies must go hand in hand and supplement each other; neither is sufficient unto itself.